**JOB RECRUITMENT PLATFORM**

# **Introduction**

A job portal is an online platform designed to facilitate the recruitment process by connecting job seekers with potential employers. It is user-friendly platform created to reduce the gap between companies and job seekers. It is difficult to find out the right position or the perfect individual in today's competitive job market. Our portal streamlines this procedure by offering a feature-rich feature to job seekers alike, along with a smooth interface. In today’s fast-paced and competitive job market, having access to a reliable job portal can be significantly enhance both job seekers and employers. This platform is designed to prioritize user experience, providing intuitive navigation and personalized job recommendation to ensure seamless and efficient job vacancy and hiring process for all users.

# **Purpose**

The main objective is to make the hiring and job seeking processes more efficient and convenient. Employers are able to post the job which provide job seekers with access to a large database of job from a variety of industries, allowing them to locate positions that fit their qualifications, experience, and career goals. This platform offer employers to create job vacancies, find suitable applicants, and effectively handle the hiring process.

# **Features**

* User-Friendly Interface:

The platform has an intuitive layout that makes it easier for companies and job seekers to use. Without lengthy instructions, users can quickly learn how to use the platform. Users can easily access key features without the need for lengthy instructions, enhancing usability. Clear menus facilitate effortless exploration of the platform’s functionalities. Responsive design ensures optimal performance across various devices according to user performances. Uses readable fonts and high contrast colors to ensure user can access easily in a effective way.

* Job Seeker Features:

Candidates can login using their email or register if he/she are new to the platform. Candidates are able to view what jobs are available in the platform and they can apply for jobs in which they are interested one click using apply button. User can view the jobs they have applied for. Apply for jobs with a few simple clicks, eliminating the hassle of the paper applications and follow-ups.

* Employer Features:

Employer can register and login using their email. Employer can create detailed job posting with descriptions, requirements and benefits. Employers can easily review the candidates who have applied for their jobs and get detailed information about each candidate, making the recruitment process more efficient. Reach a wider pool of qualified candidates through this platform.

* Job Posting:

Simple and effective job posting options for employers, with features to view the candidate who have applied for the job. Employers can easily sort applicants by viewing the post simplifying the hiring process.

# **Technologies Used:**

We use these dimensions which is HTML, JavaScript, CSS and PHP to create responsiveness design of the website. In the web design process, the hypertext mark-up language (HTML), gives the structure of the website which is also known as blueprint of the website using different tags e.g., h1 , p , image, form, div, etc. The cascading style sheets ( CCS ), is applied in the website design. Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML. The JavaScript, on the other hand, regards to a programming language that enables the addition of customs behavior and interactive behaviors on the customers’ sites. JavaScript, often abbreviated as JS, is a programming language and core technology of the Web, alongside HTML and CSS. PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. We use PHP for form handling, connecting the web to MySQL database, for validating form data, for fetching the query form the database, and more. This project we use xampp in which we use apachi server and MySQL database and also we visual studio code IDE for easy creating the website. Using DBMS like MySQL to store and manage website data effectively, ensuring scalability, reliability and data integrity.

# **Overview of the Design and Development Process:**

The design and development process involves several crucial stages to ensure a user-friendly and efficient platform. Here’s a detailed explanation of each step in the process:

* Requirement Gathering and Analysis:

To understand the needs and expectations of the target users. Engagement increases between the employer and the job seekers. Requirement are gathered from the question that is functional and nonfunctional requirement.

* Planning:

To create a clear roadmap for the development process. Secure login and registration processes for both job seekers and employers. Tools for employers to post, edit, and manage job listings, including detailed descriptions, requirements, and benefits. This structured approach helps ensure all key features are delivered efficiently. The planning phase focuses on defining the scope of the project, including different features for applying and viewing the job and opportunities. Furthermore, it involves identifying potential risks and developing strategies to mitigate them effectively.

* Design and Development:

To create user-friendly and visually appealing interface. I have completed the task as per the question given where I have to make job recruitment platform in which employers can post jobs and candidates can apply. Users can quickly understand how to use platform in a effective way without any external instructions. Develop a wireframe to visualize the basic structure and layout of the portal. To build the functionality of the platform. Code the user interface using technologies like HTML, CSS, and JavaScript. Develop server-side functionality using languages like PHP and set up the database (e.g., MySQL). Integrate front-end and back-end components for seamless communication.

* Methodology:

We use agile methodology to develop the job portal, which helps to broke larger project into smaller and manageable sub task. Each subtask had its clear goal and objectives. This approach allows us to focus on one set of features at a time. It make it easier to track progress and make adjustments quickly. This helps us to complete our project successfully and achieve our goals.

* Testing:

To ensure the platform is bug free and performs optimally. Test individual components to ensure they function as intended. Ensures quick loading of pages and actions to keep users engaged and reduce frustration. Ensure that different modules and services work together seamlessly. Automated testing streamlines and repeats testing processes. Cross browser compatibility testing ensures consistent functionality across different web browsers.

# **Challenges faced and their solution:**

As i working with the project i encounter with different kind of problems that solved during the program development process and solve these with the help of stack overflow. Here are the some problems that i encounter during the development of this project: When sometime the css of a particular element tag, these change that need to be reflected in the website are not seen. These problems happened often and solved by cross checking the class name and resetting the browser cache memory. Sql server crashed or not working. One time while working with the sql quires the sql server returned Access denied message and the reason is unknown and these is solved by adding a line in sql config file. While making sql query statement specially with queries with JOIN of three table, the queries doesn’t works at all. And these queries are corrected by hit and trail process. At times, i faced difficulties establishing connections with the database server, which i resolved by checking network configuration and ensuring database server availability. Ensuring compatibility across different devices and screen sizes required extensive testing and adjustments to the website’s responsiveness and layout. I experienced failures during the deployment process due to misconfiguration or dependencies, which I address by automating deployment pipelines and conducting through pre-deployment checks.

# **Testing Process and Its Result:**

The main goal of testing process is to make sure the platform is bug free, secure and operate at its best. Several testing methodologies are used in the process, with the goal of identifying and addressing various system aspects. The brief explanation of the testing process is explained below:

* Unit Testing:

To verify that individual components and functions of the platform work properly. Each module is tasted independently. If we find any problems, we fix them quickly. This helps to ensure the whole system work smoothly.

* Integration Testing:

To ensure that different modules and services work together seamlessly. Combined testing of interconnected modules such as User registration and login. Identified and fix data synchronization between frontend and backend systems. By doing this, we make sure everything works smoothly as a whole.

* User Acceptance Testing:

To verify that platform meets the requirements and expectations of end-users. The purpose is to ensure that the platform meets the requirements and expectations of the end-users. I ask for the help to my class friend to test the platform in real scenarios if its feature are working or not. Their feedback helped us identify and resolve potential issues. And the changes are according to the class mates feedback. This process confirmed that the platform is usable and functional.

# **The URL of the website:**

“To explore our job portal and discover exciting career opportunities, please visit our website: ”